

INFORMATION REPORT

CD NO

COUNTRY East Germany

DATE DISTR

SUBJECT Experimental Runs Conducted at Rosslau for the
Development of New Type of Boats

NO OF PAGES

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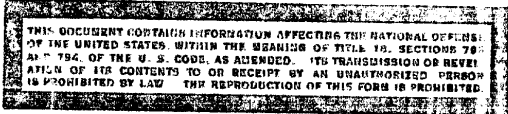
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NO OF ENCLS.
(LISTED BELOW)

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DATE OF INFO.

SUPPLEMENT TO
REPORT NO



THIS IS UNEVALUATED INFORMATION

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SOURCE

1. In the early part of July 1955, model boats M 1 and M 2-a of the FORELLE-type PT boat were transferred by truck convoy from the Rosslau shipyard to a pier on Mueritz Lake, on which experimental runs were performed under the supervision of the research and development section of the Rosslau shipyard. Engineer Schiller (fnu) was head of the Waren branch office of the Rosslau yard.
2. Model boat M 1 is powered by two 80-HP V-8 type Ford engines and equipped with all measuring instruments for checking the engines and testing the flow and pressure characteristics of the boat. A grid net was painted on the hull of the boat to make possible the counting of the unwetted surfaces of the boat and to calculate the wetted surface during the trials. The resistance of the boat depends on the wetted surface which is determined during the trials by counting the wet grid-net or with the aid of photographic or film pictures taken on that occasion. The boat also was fitted with pressure gauges which recorded the oncoming water in kilograms electrically according to the induction method. The poundings received during the runs were recorded by oscillographs.
3. Model boat M 2 differs from M 1 as it is about 1 meter longer and 10 centimeters wider than the latter. It has a better hydrodynamic shape. In 1954, boat M 2 underwent the same measuring tests as M 1. In 1955, boat M 1 was only used as a model for and comparison with the new model, "2-a".
4. Model boat M 2-a differs from M 2 by the step fitted under the stern. Boat M 2 was converted to model boat M 2-a during the period from 1 May to mid-June 1955 and the step was built in on this occasion. The research and development section of the shipyard hoped for a smaller water veil² and more favorable break away eddies at the stern. During the trial runs the bow of boat M 2a raised higher out of the water; as a result the wetted surface and the water resistance was smaller. Boat M 2-a has already reached a higher speed than boats M 1 and M 2. Boat M 2-a is powered by two 100-HP Maybach-type engines of the same type as those installed in the 3-ton Horch-type truck.
5. The FORELLE-type boat which was under construction at the time was designed on 3:1-scale lines of model boat M 2.

2. Comment. For photographs of model boat M 1 and the rudders and propellers of model boat M 2 a placed on the transporting vehicle, see Enclosure.

SECRET

NOFORN

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STATE	X	NAVY	NSRB
ARMY	X	AIR	FBI

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2. Comment: As received. Probably "wake" is meant.

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3. Comment: Enclosures are available in the

Distribution of Attachments:

OCD

ORR: loan

Navy: Retention (Set No. 1)

Retention (Set No. 2)

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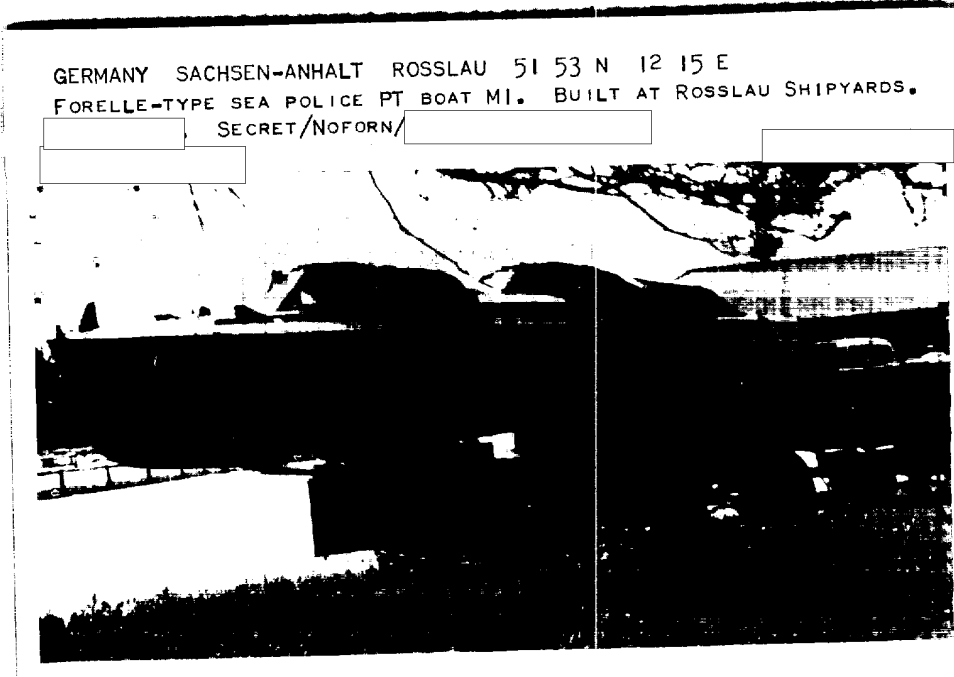
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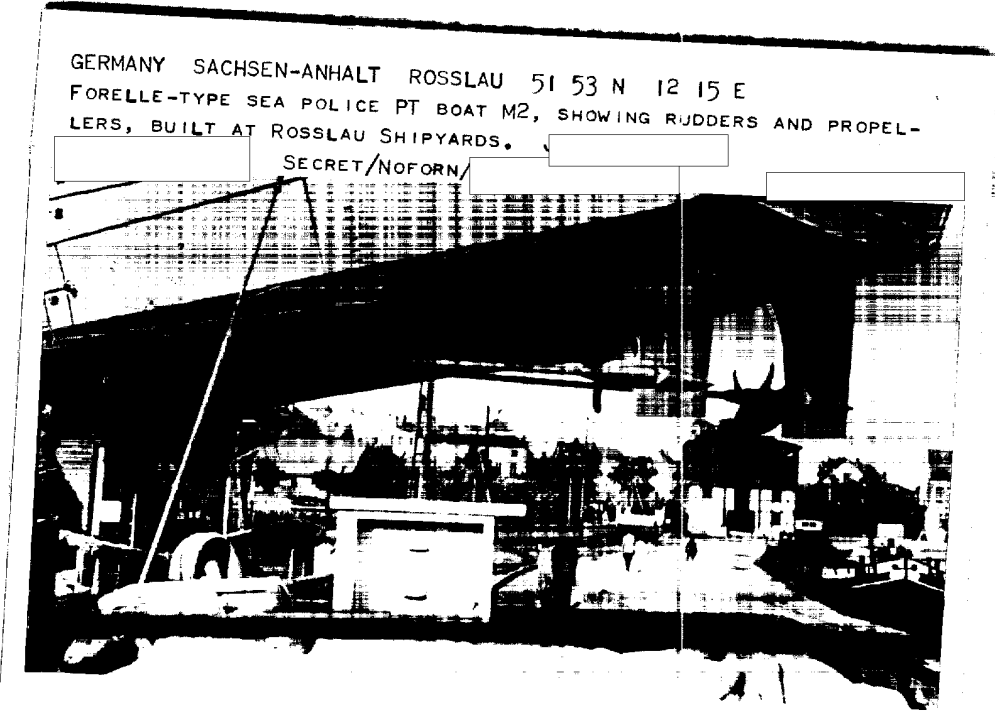
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